

## Claims

- [c1] A network monitoring apparatus for displaying a state of a network and monitoring said network, comprising:
- a setting unit operable to set a display condition that defines information to be displayed;
  - a receiving unit operable to receive information of said network;
  - a comparing unit operable to compare said received information with said display condition; and
  - a display unit operable to display said information of said network based on a result of the comparison by said comparing unit.
- [c2] A network monitoring apparatus as claimed in claim 1, wherein said setting unit further sets a receiving condition that defines information to be received, and said receiving unit receives said information of said network based on said receiving condition.
- [c3] A network monitoring apparatus as claimed in claim 1, wherein said setting unit further sets an indication image corresponding to said display condition, and said display unit displays said information of said network based on said indication image.
- [c4] A network monitoring apparatus as claimed in claim 3, wherein said receiving unit receives a communication state of an interconnecting unit that interconnects communication devices in said network from said interconnecting unit,
- said comparing unit compares said communication state of said interconnecting unit with said display condition, and
  - said display unit displays said communication state of said interconnecting unit based on said comparison result.
- [c5] A network monitoring apparatus as claimed in claim 4, wherein said interconnecting unit includes a plurality of connection ports,
- said receiving unit receives communication states of said plurality of connection ports from said interconnecting unit as said information of said network,

said comparing unit compares said communication states of said plurality of connection ports with said display condition, and  
said display unit displays said communication states of said plurality of connection ports based on said comparison result.

[c6] A network monitoring apparatus as claimed in claim 3, wherein said receiving unit receives the amount of communication at a connection port of said interconnecting unit from said interconnecting unit as said information of said network,  
said comparing unit compares said communication amount at said connection port with said display condition, and  
said display unit displays a communication state of said network based on said comparison result.

[c7] A network monitoring program for allowing a state of a network to be displayed and allowing said network to be monitored, comprising:  
a setting module operable to set a display condition that defines information to be displayed;  
a receiving module operable to receive information of said network;  
a comparing module operable to compare said information received with said display condition; and  
a display module operable to display said information of said network based on a result of the comparison by said comparing module.

[c8] A network monitoring program as claimed in claim 7, wherein said setting module further sets a receiving condition that defines information to be received, and  
said receiving module receives said information of said network based on said receiving condition.

[c9] A network monitoring program as claimed in claim 7, wherein said setting module further sets an indication image corresponding to said display condition, and  
said display module displays said information of said network based on said

indication image.

- [c10] A network monitoring program as claimed in claim 9, wherein said receiving module receives a communication state of an interconnecting unit for interconnecting communication devices in said network, said comparing module compares said communication state of said interconnecting unit with said display condition, and said display module displays said communication state of said interconnecting unit based on said comparison result.
- [c11] A network monitoring program as claimed in claim 10, wherein said interconnecting unit includes a plurality of connection ports, said receiving modules receive communication states of said plurality of connection ports as said information of said network, said comparing module compares said communication states of said plurality of connection ports with said display condition, and said display module displays said communication states of said plurality of connection ports based on said comparison result.
- [c12] A network monitoring program as claimed in claim 9, wherein said receiving module receives the amount of communication at a connection port of said interconnecting unit from said interconnecting unit as said information of said network, said comparing module compares said communication amount at said connection port with said display condition, and said display module displays a communication state of said network based on said comparison result.
- [c13] A network monitoring method for displaying a state of a network and monitoring said network, comprising:  
setting a display condition that defines information to be displayed;  
receiving information of said network;  
comparing said received information of said network with said display condition; and

displaying said information of said network based on a result of the comparison.

[c14] A network monitoring method as claimed in claim 13, wherein in said setting a receiving condition that defines information to be received is further set, and in said receiving said information of said network is received based on said receiving condition.

[c15] A network monitoring method as claimed in claim 13, wherein in said setting an indication image is further set to correspond to said display condition, and in said displaying said information of said network is displayed based on said indication image.

[c16] A computer network system comprising:  
a network monitoring apparatus operable to display a state of a network and to monitor said network; and  
a network communication device operable to notify said network monitoring apparatus of said state of said network, wherein  
said network monitoring apparatus includes:  
a setting unit operable to set a display condition that defines information to be displayed;  
a receiving unit operable to receive information of said network from said network communication device;  
a comparing unit operable to compare said received information with said display condition; and  
a display unit operable to display said information of said network based on a result of the comparison by said comparing unit.

[c17] A computer network system as claimed in claim 16, wherein said setting unit further sets a receiving condition that defines information to be received, and said receiving unit receives said information of said network based on said receiving condition.

[c18] A computer network system as claimed in claim 16, wherein said setting unit

further sets an indication image corresponding to said display condition, and said display unit displays said information of said network based on said indication image.

[c19] A computer network system as claimed in claim 18, wherein said network communication device is an interconnecting unit for interconnecting communication devices in said network, said receiving unit receives a communication state of said interconnecting unit from said interconnecting unit, said comparing unit compares said communication state of said interconnecting unit with said display condition, and said display unit displays said communication state of said interconnecting unit based on said comparison result.

[c20] A computer network system as claimed in claim 19, wherein said interconnecting unit includes a plurality of connection ports, said receiving unit receives communication states of said plurality of connection ports of said interconnecting unit, said comparing unit compares said communication states of said plurality of connection ports with said display condition, and said display unit displays said communication states of said plurality of connection ports based on said comparison result.

[c21] A computer network system as claimed in claim 18, wherein said receiving unit receives the amount of communication at a connection port of said interconnecting unit from said interconnecting unit, said comparing unit compares said communication amount at said connection port with said display condition, and said display unit displays a communication state of said network based on said comparison result.